

以全民健保資料庫探討台灣地區水痘之季節變異性

## Seasonal variation of chickenpox in Taiwan estimated by NHIR database

吳伯元 李友專

Po-yuan Wu<sup>a</sup>, Yu-Chuan Li<sup>a</sup>

台北醫學大學醫學資訊研究所

<sup>a</sup> graduate institute of medical informatics, Taipei medial university

### *Abstract*

*In order to determine the seasonal variation of chickenpox in Taiwan, we analyzing data from NHIR database in year 2000. The entire patient suffered from chickenpox in NHI date base are included (N=165719) and divided to northern, center, southern and eastern part of Taiwan by geographic locations. In all geographic locations except off-shore Island, the peak is in January and lowest incidence rate peak in September and July. Chi-Square Test for Equal Proportions show seasonal variation of chickenpox in Taiwan ( $P < .0001$ ). We also found there are cyclic pattern between total patient numbers and days in all the year 2000, about 7 days a cycle*

*Keywords: chickenpox, seasonal variation, incidence rate, temperature*